The Development of Liberal Arts and Sciences

[illegible] [illegible]

[illegible]

—— [illegible] [1][illegible]

[illegible] Technological Singularity [illegible]

[illegible] [2][illegible]

[illegible] The Selfish Gene [illegible]

[illegible]

Leukotomy [illegible] 1970[illegible]80 [illegible]

[illegible] [3][illegible]

In Math We Trust[illegible]Technological Singularity[illegible]AlphaGo Zero [illegible] superhuman [illegible]“[illegible]”[illegible] [illegible] [4][illegible]

[illegible]

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[illegible]

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[illegible] [5][illegible] [6][illegible]

[illegible]

[illegible] [7][illegible]

[illegible]

[illegible] [8][illegible]

[illegible]Ibn al-Haytham [illegible]

[illegible]

[illegible]

[illegible] 13 [illegible] 14 [illegible]

[illegible]

[illegible]

[illegible] 15[illegible]16 [illegible]well-controlled [illegible] (Filippo Brunelleschi)[illegible]

[illegible] [9][illegible]

[illegible]

[illegible]

17 [illegible]

[illegible] [10] [illegible] [11] [illegible]

[illegible] [12] [illegible]

[illegible] peer review [illegible]

[illegible]

[illegible]

[illegible] well-controlled [illegible] [13] [illegible] [14] [illegible]

[illegible] metaphysics [illegible] [15] [illegible]

[illegible]

[illegible]

18 [illegible]

[illegible]

[illegible] [16] [illegible]

[illegible]

[illegible] epistemology [illegible] critique [illegible]

[illegible]

[illegible]

[illegible]

[illegible] 19 [illegible] 19 [illegible]

[illegible]

[illegible]

[illegible] 1819 [illegible] Ferdinand Karl Schweikart [illegible] 1830 [illegible]

[illegible] [17][illegible]

[illegible] [18][illegible]

[illegible] [19][illegible]

[illegible] [20][illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 20 [illegible]

[illegible] 20 [illegible]

[illegible] [21][illegible] [22][illegible]

[illegible]

[illegible]

[illegible]

[illegible] [23][illegible]

[illegible] leukotomy [illegible] Forrest Gump [illegible] A City upon a Hill [illegible] [24][illegible]

[illegible]

[illegible] personality [illegible] intelligence [illegible]

[illegible]

[illegible] "[illegible]" [illegible] [25][illegible]

[illegible] [26][illegible]

[illegible]

20 [illegible]

[illegible] mainframe [illegible] personal computer [illegible] smartphone [illegible]

[illegible] leukotomy [illegible]

[illegible] Turing Machine [illegible]

Universal approximation theorem [illegible]

[illegible]Technological Singularity [illegible] Turing Test[illegible]AlphaGo Zero [illegible] datasets[illegible]

[illegible]

[illegible] AI: A Modern Approach [illegible] Wind Tunnel approach [illegible]

[illegible]

[illegible] 737Max [illegible]

[illegible] SAE level 5[illegible] SAE level 4 [illegible] SAE level 4 [illegible] SAE level 4 [illegible]

[illegible] Deep Blue [illegible]Demis Hassabis [illegible] [27][illegible]AlphaGo Zero [illegible] Nature [illegible] superhuman [illegible] Superhuman [illegible] generic [illegible] human[illegible] generic [illegible] superhuman [illegible]

[illegible] AlphaGo Zero [illegible] 19x19 [illegible] AlphaGo Zero [illegible] [28][illegible]

[illegible]AlphaGo Zero [illegible] Deep Blue [illegible]AlphaGo Zero [illegible]AlphaGo Zero [illegible]

Deep Blue [illegible] [29][illegible]

[illegible]

[illegible]Occam's Razor[illegible]

Occam's Razor [illegible] Occam's Razor [illegible] Occam's Razor [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [30][illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]The Selfish Gene (or The Immortal Gene) [31][illegible]

[illegible]

[illegible]

[illegible] Gu Test[illegible]A Progressive Measurement Of Generic Artificial Intelligence [illegible]

[illegible] [32][illegible]“[illegible]”[illegible] [33][illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [34][illegible] [35][illegible]

[illegible] [36][illegible]

[illegible]

[illegible] 70%[illegible] 10%[illegible]

[illegible]

[illegible] [37][illegible]

[illegible]

[illegible]

[illegible]

[illegible] 80[illegible]90 [illegible]PC[illegible] [38][illegible] Internet [illegible] smartphone [illegible]

[illegible]iPhone [illegible] smartphone [illegible] mainframe[illegible]PC [illegible]smartphone [illegible]

[illegible] CPU [illegible] operating system (OS) [illegible] PC[illegible]Internet[illegible] smartphone [illegible]

[illegible] ARM CPU [illegible]Linux [illegible] Android [illegible] CPU [illegible] OS [illegible] [39][illegible]

[illegible] consolidation[illegible] smartphone [illegible] Consolidation [illegible] smartphone [illegible]

[illegible] smartphone [illegible]

[illegible]

[illegible]

[illegible] 1920 [illegible]

[illegible]

[illegible] niche sector [illegible]

[illegible]

[illegible]

[illegible]Matrix [illegible]

[illegible] motif [illegible] motif [illegible] motif [illegible]

[illegible] [40][illegible]

[illegible] Hawthorne effect [illegible]

[illegible]

[illegible]

[illegible] individualism [illegible] [41][illegible]The Selfish Gene ([illegible] The Immortal Gene) [illegible] [42][illegible]

[illegible] Gilded Age[illegible]

[illegible] [43][illegible] Gilded Age [illegible] [44][illegible] 911 [illegible]

[illegible] Gilded Age [illegible] A City upon a Hill [illegible] Forrest Gump [illegible] 911 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible] Gilded Age [illegible]

[illegible]

[illegible]

[illegible] witch-hunt [illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]

[illegible]personality[illegible]dimension[illegible] [45][illegible]

[illegible][46] [illegible]

[illegible]“[illegible]”[illegible]

[illegible] [47][illegible] [49][illegible]

[illegible]

[illegible]

[illegible] 1/5 [illegible]

[illegible]

[illegible] [51][illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Technological Singularity [illegible] Technological Singularity [illegible] AlphaGo Zero [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]——[illegible]

[illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

BRAIN Intiative [illegible]

[illegible]Leukotomy [illegible] [53][illegible]

[illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[illegible]

[illegible] [54][illegible]

~~~~~~~~~~~~~

[1] [illegible]

[2] [illegible]

[3] [illegible]

[illegible]

[illegible]

[4] [illegible] Chinese room [illegible]

[illegible] In Math We Trust [illegible]

[illegible] Technological Singularity [illegible]

[5] [illegible]

[illegible]

[6] [illegible] guideline [illegible] judgement[illegible]

[7] [illegible]

“[illegible]”[illegible]

[8] [illegible] John Philoponus[illegible]

[illegible] Ibn al-Haytham [illegible]

[9] [illegible] architect [illegible] architect [illegible] methodology [illegible]

[10] [illegible]
~~~~~~~~~~~~~

[illegible]

[11] [illegible] personality[illegible]

[illegible]

[illegible] personality [illegible] personality [illegible]

[illegible]physical sciences[illegible]

[12] [illegible] 1630 [illegible]

[illegible] 1632 [illegible]

[13] [illegible]

[illegible] 1687 [illegible]

[14] [illegible]

[15] [illegible]Gödel's theorems suggest metaphysics from humans may not work. I do not cross the boundary between religion and science.

[illegible]Je pense, donc je suis[illegible]

[illegible]

[16] [illegible] 20 [illegible] insights[illegible]

[illegible]

[17] [illegible] Ferdinand Karl Schweikart [illegible]

[18] [illegible]

[19] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[20] [illegible]

[21] [illegible] Filippo Marinetti [illegible] Manifesto del Futurismo [illegible]

[illegible] Technological Singularity [illegible] Nature [illegible] AlphaGo Zero [illegible] superhuman [illegible]

[illegible] go rogue [illegible] go rogue [illegible]

[illegible]

[22] [illegible] 1917 [illegible]

[illegible]

[illegible](Паша)[illegible] personality [illegible]

[illegible]

[illegible] 1917 [illegible]

[illegible] 1917 [illegible]

[illegible](Лара)[illegible]

[illegible]

[illegible]

[23] [illegible]

[illegible] Technological Singularity [illegible]

[illegible]

[24] [illegible]

[illegible]·[illegible]·[illegible]

[illegible]

[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[25] [illegible]

[illegible]

[illegible]

[illegible] attraction[illegible]passion[illegible]commitment [illegible] commitment [illegible] exclusive[illegible] exclusive[illegible]

[illegible]

[illegible] leukotomy [illegible] BRAIN Initiative [illegible]

[26] [illegible]

[illegible]

[illegible] ARBEIT MACHT FREI[illegible]

[27] [illegible] The Guadian [illegible] a meta-solution to any problem[illegible] AGI [illegible]

"Demis Hassabis ... is deadly serious when he tells me he is on a mission to 'solve intelligence, and then use that to solve everything else'.

……

'One way of thinking of AGI is as a process that will automatically convert unstructured information into actionable knowledge. What we’re working on is potentially a meta-solution to any problem.'",

from https://www.theguardian.com/technology/2016/feb/16/demis-hassabis-artificial-intelligence-deepmind-alphago[illegible]

[28] [illegible]AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible]

[illegible]AlphaGo Master [illegible]

[illegible] 737 Max [illegible]

“'In thousands of tests, nothing like this had ever happened,' he said.",   Boeing Built Deadly Assumptions Into 737 Max, Blind to a Late Design Change, https://www.nytimes.com/2019/06/01/business/boeing-737-max-crash.html.

[29] [illegible] Deep Blue [illegible]

[illegible]

[30] [illegible]

[illegible]

[illegible]

[31] The Selfish Gene (or The Immortal Gene) [illegible]: to be "a leader to the Greeks and a despot to the barbarians, to look after the former as after friends and relatives, and to deal with the latter as with beasts or plants"[illegible]

[32] [illegible]

[33] [illegible]

[illegible] go rogue [illegible] vandalist [illegible]1204 [illegible]

[illegible]

[illegible] Socratic method [illegible]

[illegible] AlphaGo Zero [illegible]Nature [illegible] AlphaGo Zero [illegible] superhuman performance [illegible]

[illegible]Jack [illegible]Ralph [illegible]Ralph [illegible] leader[illegible] Piggy [illegible]Ralph [illegible] Simon [illegible]

[illegible]The Development of Liberal Arts and Sciences[illegible]

[34] [illegible] 1970 [illegible]

[illegible] CPU [illegible] operating system [illegible]

[illegible]

[35] [illegible] BRAIN Initiative [illegible] Moonshot[illegible]

[illegible]American Factory [illegible]

[illegible]

[illegible] [51][illegible]

[illegible]

[illegible]

[36] [illegible]

[illegible]

[illegible]

[illegible] leucotomy [illegible] leucotomy [illegible]

[illegible]

[illegible]

[illegible]

[37] [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Technogical Singularity [illegible]

[illegible]

[38] [illegible] Intel [illegible] CPU [illegible] CPU [illegible] OS [illegible]

[illegible] CPU [illegible] OS [illegible]1980 [illegible]

[illegible] Intel [illegible] smartphone [illegible] CPU [illegible] Technological Singularity [illegible]

[39] [illegible] smartphone [illegible]CPU [illegible] Intel [illegible] ARM [illegible]ARM [illegible] Intel [illegible] Google [illegible] Android OS [illegible] open source [illegible] CPU [illegible] OS [illegible]

[illegible] Linus Torvalds [illegible] Linux [illegible]Google [illegible] Android [illegible] Microsoft [illegible] Apple [illegible] smartphone [illegible] Google [illegible] Google [illegible] CPU [illegible] OS [illegible]ARM [illegible] Google [illegible] CPU [illegible] OS [illegible] smartphone [illegible]

[illegible] smartphone [illegible]

[40] [illegible] program music[illegible] program music[illegible]“[illegible]”[illegible]

[illegible]

[41] [illegible]

[42] [illegible] 2019 [illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]https://www.chinesepen.org/blog/archives/121899[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible] The Selfish Gene [illegible]“[illegible]”[illegible] The Selfish Gene [illegible]The Selfish Gene [illegible]

“[illegible]”[illegible]

[illegible]

[43] "On 28 July, after reading Serbia's reply, Wilhelm commented, 'But that eliminates any reason for war' or 'every cause for war falls to the ground'......Wilhelm's sudden change of mind about war enraged Bethmann Hollweg, the military, and the diplomatic service, who proceeded to sabotage Wilhelm's offer.", from https://en.wikipedia.org/wiki/July_Crisis.

[illegible] Wilhelm [illegible]

[illegible]Wilhelm [illegible]

[illegible]

[44] [illegible] Gilded Age [illegible] 1920 [illegible]

[45] [illegible]

[46] [illegible]

[47] [illegible] [48][illegible]

[illegible]

[illegible]

[illegible]

[48] [illegible]

[illegible]

[illegible]

[illegible] (public service) [illegible]

[49] [illegible]

[illegible]

[illegible]“[illegible]”[illegible] [50][illegible]“[illegible]”[illegible]

[illegible]

[50] [illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible] crowded[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[51] [illegible]

[illegible]

[illegible] 1924 [illegible]

[illegible] [52] [illegible]

[illegible]

[52] [illegible]

[illegible] public service [illegible]

[illegible] arXiv [illegible]

[illegible] arXiv [illegible] arXiv [illegible]

[illegible] arXiv [illegible]

[illegible] Solyndra [illegible]

[illegible]

[53] Leukotomy [illegible] Moniz [illegible] leukotomy [illegible] Leukotomy [illegible] Leukotomy [illegible] leukotomy [illegible] leukotomy [illegible] Moniz [illegible] leukotomy [illegible] https://www.nobelprize.org/prizes/medicine/1949/moniz/article/, First published 29 October 1998[illegible]

Moniz [illegible] leukotomy[illegible]"for his discovery of the therapeutic value of leucotomy in certain psychoses."[illegible] leukotomy [illegible] leukotomy [illegible] https://www.nobelprize.org/prizes/medicine/1949/moniz/biographical/[illegible]

[illegible] leucotomy [illegible] leucotomy [illegible] leucotomy [illegible]

[illegible] leukotomy [illegible]“[illegible]”[illegible]

[54] "Second US town pays up to ransomware hackers", https://www.bbc.com/news/technology-48770128[illegible]

[illegible]

[illegible]